



Form GSOP I-PIN (04/98)

STATE OF CALIFORNIA
 Department of General Services - Office of Procurement
PURCHASE ORDER

Purchase Order No. Rev. Date
62272 12/18/2008

Supplier No.	Solicitation No.	Delivery Date	FOB Point	Invoice Terms
795241	57156	210 Days ARO	Destination	

GARVEY EQUIPMENT COMPANY 430 SOUTH PINE STREET SAN GABRIEL, CA 91776 Attn: JOHN FERNANDEZ Phone: 800-282-4396	S DEPT OF TRANSPORTATION h CALTRANS EQUIPMENT SERVICE i (VARIOUS LOCTIONS- AS P SPECIFIED)	C CALTRANS-ACCTG/OFC B-15 h EQUIPMENT RECEIVING a PO BOX 160048 T SACRAMENTO, CA 95816 r o s e	
	Agency Billing 60063	Agency Purchase Estimate 32-12-5428(A)	Purchase Estimate 67307 Revision 0
	Agency Contact ROGER ZUMALT	Phone 916-227-9706	Date Received

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension	
<p>The general provisions for Non-IT commodities are hereby incorporated by reference. These General Provisions can be obtained by phoning (916) 375-4400 or by accessing our website at:</p> <p>www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf</p> <p>The following information is provided for agency use only:</p> <p>Prime Contractor: SB</p> <p>DELIVER</p>							
5	EA		3895-152-0539-7	CHIPPER BRUSH Brush Chipper, Disc, Trailer Mounted, Diesel in accordance with the State of California Specification #25204-226-071:	33,098.0000	165,490.00	
			<u>Eq. ID</u>	<u>Eq. Class</u>	<u>EBR / Shop</u>		
			7005146	25204	7005146/21		
			7005147	25204	7005147/21		
			7005148	25204	7005148/21		
			7005149	25204	7005149/21		
			7005150	25204	7005150/21		
			Training Required at The Ship to Location Ship to: Shop 21 3290 North State Street Ukiah, Ca 95482				

Sales and/or use tax to be extra unless noted above

Buyer SHANNON KELLER	Phone 916-375-4606	BOC Number
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STATE OF CALIFORNIA

Department of General Services - Office of Procurement

PURCHASE ORDER CONTINUATION

Form GSOP 2-PIN (04/98)

<i>Purchase Order No.</i> 62272	<i>Revision</i>	<i>Date</i> 12/18/2008	<i>Supplier No.</i> 795241	<i>Supplier Name</i> GARVEY EQUIPMENT COMPANY
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<i>Item No.</i>	<i>Quantity</i>	<i>Unit</i>	<i>Commodity Code</i>	<i>Description</i>	<i>Unit Price</i>	<i>Extension</i>	
1	EA		3895-152-0539-7	CHIPPER BRUSH Brush Chipper, Disc, Trailer Mounted, Diesel in accordance with the State of California Specification #25204-226-071:	33,098.0000	33,098.00	
			<u>Eg. ID</u>	<u>Eg. Class</u>	<u>EBR / Shop</u>		
			7005043	25204	7005043/23		
			Training Required at The Ship to Location Ship to: Shop 23 981 North Beale Road Marysville, Ca 95901				
4	EA		3895-152-0539-7	CHIPPER BRUSH Brush Chipper, Disc, Trailer Mounted, Diesel in accordance with the State of California Specification #25204-226-071:	33,098.0000	132,392.00	
			<u>Eg. ID</u>	<u>Eg. Class</u>	<u>EBR / Shop</u>		
			7005449	25204	7005449/24		
			7005451	25204	7005451/24		
			7005453	25204	7005453/24		
			7005455	25204	7005455/24		
			Training Required at The Ship to Location Ship to: Shop 24 1993 Marina Blvd. San Leandro, Ca 94577				
5	EA		3895-152-0539-7	CHIPPER BRUSH Brush Chipper, Disc, Trailer Mounted, Diesel in accordance with the State of California Specification #25204-226-071:	33,098.0000	165,490.00	
			<u>Eg. ID</u>	<u>Eg. Class</u>	<u>EBR / Shop</u>		
			7004657	25204	7004657/25		
			7004658	25204	7004658/25		
			7004659	25204	7004659/25		
			7004660	25204	7004660/25		
			7004661	25204	7004661/25		
			Training Required at The Ship to Location Ship to: Shop 25 66 Madonna Road San Luis Obispo, Ca 93401				

STATE OF CALIFORNIA

Department of General Services - Office of Procurement

PURCHASE ORDER CONTINUATION

Form GSOP 2-PIN (04/98)

<i>Purchase Order No.</i> 62272	<i>Revision</i>	<i>Date</i> 12/18/2008	<i>Supplier No.</i> 795241	<i>Supplier Name</i> GARVEY EQUIPMENT COMPANY
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<i>Item No.</i>	<i>Quantity</i>	<i>Unit</i>	<i>Commodity Code</i>	<i>Description</i>	<i>Unit Price</i>	<i>Extension</i>	
3	EA		3895-152-0539-7	CHIPPER BRUSH Brush Chipper, Disc, Trailer Mounted, Diesel in accordance with the State of California Specification #25204-226-071:	33,098.0000	99,294.00	
			<u>Eq. ID</u>	<u>Eq. Class</u>	<u>EBR / Shop</u>		
			7005202	25204	7005202/26		
			7005203	25204	7005203/26		
			7005204	25204	7005204/26		
			Training Required at The Ship to Location				
			Ship to: Shop 26				
			1385 N. West Ave.				
			Fresno, Ca 93728				
1	EA		3895-152-0539-7	CHIPPER BRUSH Brush Chipper, Disc, Trailer Mounted, Diesel in accordance with the State of California Specification #25204-226-071:	33,098.0000	33,098.00	
			<u>Eq. ID</u>	<u>Eq. Class</u>	<u>EBR / Shop</u>		
			7005291	25204	7005291/27		
			Training Required at The Ship to Location				
			Ship to: Shop 27				
			13200 Golden State Road				
			Sylmar, Ca 91342				
1	EA		3895-152-0539-7	CHIPPER BRUSH Brush Chipper, Disc, Trailer Mounted, Diesel in accordance with the State of California Specification #25204-226-071:	33,098.0000	33,098.00	
			<u>Eq. ID</u>	<u>Eq. Class</u>	<u>EBR / Shop</u>		
			7004818	25204	7004818/31		
			Training Required at The Ship to Location				
			Ship to: Shop 31				
			7179 Opportunity Road				
			San Diego, Ca 92111				

STATE OF CALIFORNIA

Department of General Services - Office of Procurement

PURCHASE ORDER CONTINUATION

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<i>Item No.</i>	<i>Quantity</i>	<i>Unit</i>	<i>Commodity Code</i>	<i>Description</i>	<i>Unit Price</i>	<i>Extension</i>	
1	EA		3895-152-0539-7	CHIPPER BRUSH Brush Chipper, Disc, Trailer Mounted, Diesel in accordance with the State of California Specification #25204-226-071:	33,098.0000	33,098.00	
			<u>Eg. ID</u> 7004704	<u>Eg. Class</u> 25204	<u>EBR / Shop</u> 7004704/34		
			Training Required at The Ship to Location Ship to: Shop 34 691 South Tustin Street Orange, Ca 92866				
				<u>PO Miscellaneous Charges and Discounts</u> BATCH ADJUSTMENT (CHARGE)		<u>Dollar Value</u> 147.00	
				Total Value:		695,205.00	

DELIVERY

Delivery is to be completed in full within two-hundred and ten (210) days after receipt of order (ARO).

Note: In accordance with paragraph 15 of the General Provisions entitled "Delivery", the contractor shall strictly adhere to the delivery terms and completion schedule as specified in this solicitation. Failure to comply with the delivery requirements, as stated, may be considered a breach of contract and subject the contractor to General Provisions 26, entitled "Rights and Remedies of the State for Default".

FEDERAL EXCISE TAX EXEMPT CERTIFICATE ATTACHED

Federal Excise Tax Exemption Certificate attached.

CALIFORNIA TIRE RECYCLE FEE

A one-time recycle fee of \$1.75 per tire, for eighty-four (84) tires, totaling \$147.00, is included in this purchase order.

SALES TAX

Sales tax was not included in the bid pricing and is not part of this award. Sales tax should be added at time of invoicing. The sales tax rate applied should be based on the rate of the area the product is to be delivered to.

PURCHASE ORDER CHANGES

This Purchase Order may be amended, modified, or terminated at any time by mutual agreement of the parties, in writing. Change orders amending, modifying or terminating the Purchase Order, including any modifications of the compensation payable, may be issued only by the State Procurement Officer. All such change orders shall be in writing and issued only upon written concurrence of the supplier. Termination, as that term is used in this section, does not include termination for default of the supplier.

SCPRS

This Purchase order has been registered into the State Contract and Procurement Registration System (SCPRS) at (<https://www.scprs.dgs.ca.gov/>). The registration number is 26601208348732.

STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
DIVISION OF EQUIPMENT

ITEM	UNIT	CAB	TRANS	ENG	CAP	C.A.	F.A.	R.A.
25204	U			100	12-inch			7000

SPECIFICATION NUMBER: 25204-226-071

SPECIFICATIONS FOR: BRUSH CHIPPER, DISC, TRAILER-MOUNTED

PURCHASE ESTIMATE NUMBER: 32-12-5428

SCOPE

It is the intent of this specification to describe the minimum requirements for a trailer mounted, disc type, brush chipper with an industrial diesel engine. The brush chipper shall be self-feeding, capable of chipping wood up to 12 inches in diameter into chips with at least one dimension no larger than 3/8 inch wide.

The unit shall comply with Caltrans Equipment Quality Standards for Electrical, Welding, paint and coatings as defined at: <http://www.dot.ca.gov/hq/eqsc/qualstand.htm>. Only technical changes authorized by the Specification Engineer in writing will be accepted. Technical changes made by any other State employee will not be accepted.

TECHNICAL SPECIFICATIONS:

1. ENGINE: The engine shall be an industrial liquid cooled, turbo charged, diesel engine that develops not less than 110 horsepower (continuous rating) with sufficient torque to operate the chipper at its maximum rated capacity without exceeding the engine manufacturer's recommended RPM for continuous operation. The engine shall also be California Air Resources Board (CARB) certified as may be required. The engine shall be certified to meet Tier III emission requirements, this requirement shall not be met using credits. **In the event an engine is provided that is 170 horsepower or greater, it shall be Tier IV certified.** Engine Family shall be supplied prior to award. The thermostat, radiator, and fan shall maintain the correct operating temperature at full rated engine RPM with the chipper operating at continuous maximum rated capacity with an ambient temperature of 110° F. The lockable engine enclosure shall be provided with adequate louvers for proper ventilation.

The engine shall be equipped with the following items:

- a.) An air cleaner system of the correct capacity recommended by the filter manufacturer to match the demand of the engine. The air cleaner system shall be the highest capacity designed system available for the engine while meeting the required emission standards. The air cleaner connections shall be dust-proof and water proof, either tubing or hose mounted to withstand abrasion, wear, and vibration. It is preferred that the air cleaner system be one of the following combinations:

- I Two (2) dry-type replaceable paper elements consisting of an outer primary filter and an inner safety element.
 - II A centrifuging action pre-cleaner that removes coarse dust and moisture with a self-cleaning dust and water evacuator and a dry-type replaceable paper elements consisting of an outer primary filter and an inner safety element.
- b.) A restriction gauge to maintain highest reading having a scale indicating inches of water, be mounted in the control panel or be readily visible to the operator while conducting a preoperational inspection of the unit, and shall be marked to indicate maximum restriction according to the engine manufacturer's recommendations.
 - c.) A full-flow element type oil filter.
 - d.) Electronic fuel injection.
 - e.) A muffler/particulate trap of the correct capacity as recommended by the manufacturer. The muffler shall be mounted and braced in a manner to prevent undue strain on the exhaust manifold. If the exhaust discharge is vertical, a rain cap or a device of similar function shall be installed to prevent wind and water from entering the exhaust system. The exhaust system shall be adequately guarded to prevent operator from being burned.
 - f.) A fuel tank with minimum of 25 gals.
 - g.) A clutch and/or PTO to engage and disengage the chipper system.
 - h.) A standard key type, electric ignition switch shall be installed on the instrument panel to start and shut off the engine.
 - i.) A fuel filter system shall be installed between tank and fuel pump in an easily accessible place
 - j.) The following gauges (digital displays are acceptable) shall be installed on the instrument panel as a minimum:
 - I Hour-meter.
 - II Tachometer.
 - III Volt meter.
 - IV Oil pressure gauge.
 - V Liquid coolant temperature gauge.

- VI Fuel gauge (fuel gauge may be mounted on the tank provided it can be read from the panel location)

NOTE: The gauges shall be surface sealed types and shall be installed in an instrument panel convenient to and visible by the operator.

- k.) A 12 volt electric starter.
- l.) A minimum of 35 amp capacity alternator.
- m.) A maintenance-free battery (Ref: Delco Freedom) with a minimum rating of 750 CCA that is securely mounted to the chipper in a lockable battery box and readily accessible to the operator. Cable ends that are clamped or soldered on to the cables are not acceptable (side terminal batteries are not acceptable).
- n.) A coolant that contains at least 50% anti-freeze.
- o.) Removable, lockable side panels on the engine for vandal protection.
- p.) Crankcase oil level dip stick.
- q.) Safety switches as follows:
 - I Oil pressure gauge, with automatic engine shut-off for low oil pressure. Ref. Murphy, Switchgauge Model 20-P.
 - II High engine coolant temperature switch.
 - III Low coolant level switch in radiator top tank (Ref: Robertshaw Low Coolant Indicator Model 613 or comparable).

2. FEED CHUTE: A hinged infeed table chute that provides a minimum distance of 85-inches measured from level ground up to the table/extension and forward to the center line of the rollers shall be provided.

The feed table shall have a minimum 64-inch length from the feed rollers to the end of the table extension. This table will fold from the extended position to the upright position for storage.

The minimum height of the feed table from the ground shall be 21-inch.

Unit shall be equipped with an automatic engine speed monitoring system that senses the speed of the engine. The auto feed system shall automatically control the feeding of material into the cutter system according to engine RPM's.

The feed chute shall lock in the transport position.

3. ARTICULATION: The unit shall have hydraulic articulation that will allow the feed chute to swivel to the right side a minimum of 45°. Articulation may be accomplished through a hydraulically pivoting tongue or hydraulically pivoting the chipper on a frame above the trailer frame. Articulation configurations other than those listed above shall be submitted 15 days prior to bid opening for engineering approval. Any stops used in the design of the articulation feature shall be designed so as not to have sharp corners that can rub on the adjacent structure or towing tongue and should have replaceable wear pads (preferably made of UHMW material) to prevent chaffing or excessive wear. A label shall be placed at the hydraulic articulation control to inform the operator to release any mechanical articulation locking devices before articulating the machine.
4. FEED RATE: The chipper shall be self-feeding with a feed rate of at least 90 linear feet per minute, and shall be capable of chipping branches up to 12 inches in diameter.
5. DISCHARGE CHUTE: The discharge chute, mounted on the disc housing, shall swivel a minimum of 270° starting at 90° counterclockwise from the longitudinal center line of the vehicle and trailer. The chute shall be capable of rotating a minimum of 270° clockwise. The exit point of chute shall be not less than 84 inches from the ground.

Any transition bends in the chute shall be minimum 20-inch radius. The chute length as measured horizontally from the discharge of the flywheel housing to the end of the chute shall not be less than 80-inch.

Discharge chute shall have a chip clean out trap. The trap shall be easily accessible for cleaning.

6. INFEED SYSTEM: The chipper shall have an automatic feed with two feed rollers. Each roller shall have a minimum 9 inch diameter and a minimum length of 15-inch.

Both feed rollers shall be powered to feed material. The feed system shall be equipped with non-wrapping feed bars. The feed rollers shall have a clamping action to apply force to the material to prevent slippage.

Infeed table opening shall be a minimum 26-inch by 50-inch. The feed opening at the roller shall have a minimum open area of 144 square inch and shall feed in tree branches of up-to 12-inch diameter. The feed rollers shall clamp down to minimum 144 square inch area and shall feed a maximum 12-inch branch.

The infeed rollers shall be power driven and shall have forward and reverse capability.

7. DUST SUPPRESSOR: A water mist type dust suppressor consisting of a water tank, filter, sprayers, and controls shall be installed. The water tank shall be not less than 20-gallons and shall be constructed of heavy-duty polyethylene. The filter must be installed in the water line between the water tank and the pump, and be capable of quick removal for maintenance. Two sprayers shall be installed on the top of the infeed system cover facing down towards the feed rollers and one sprayer shall be

installed at the discharge chute. Each sprayer shall spray minimum of 1.8 gallons of water per hour. An on-off switch mounted on the control panel for the pump shall be supplied, with permanent label for identification.

The water pump shall have a provision to stop automatically the moment there is no water in the tank to be pumped. This is to protect the pump from overheating and eventually damaging it. In lieu of this requirement a pump shall be supplied that can run dry without damage.

8. DISC: The chipper disc shall be made of steel and shall produce a minimum sheer force of 150,000 pounds per foot. The disc shall be provided with a minimum of four (4) steel knives generating two full-length chipping strokes per revolution and produce a dimensional, landscape quality chip. The knives shall be bolted in place for ease of replacement. An extra set of knives and one additional bed knife shall be supplied with each unit.

The disc housing shall allow access to the disc for blade and disc maintenance.

A safety pin chained to the disc housing shall be supplied to safely secure the disc while the blades are changed or maintained.

9. SAFETY: The unit shall comply with the California Code of Regulations, Title 8, Division of Industrial Safety General Industry Safety Orders, Section 3424(c) chipper safety.

The brush chipper shall be equipped with a feed control bar positioned at the entrance of the feed chute. The feed controller bar shall activate, stop and reverse the feed system by moving the bar in towards the feed chute.

The brush chipper shall be provided with two emergency engine kill switches that will shut off the engine which will allow the disc to come to a complete stop. The controls for the engine kill switches shall be located one on each side of the feed table within easy reach of the operator

NOTE: All pulleys, belts, flywheel and any other hazardous component parts shall be adequately guarded.

10. CONTROLS: The controls to operate the brush chipper shall be installed on the passenger side.
11. HYDRAULIC SYSTEM: The hydraulic system shall be equipped with the proper relief valves and shall have a hydraulic fluid reservoir of sufficient size to provide adequate cooling for the system and shall be a minimum of 12 gallons. The reservoir shall have a clean out port, fluid level indicator, strainer, and filtered breather cap. The filter shall be a spin-on type and shall be capable of being changed without draining the system. A by-pass, spin-on filter head with a by-pass setting, a 10 micron spin-on hydraulic oil filter, and a pressure gauge to indicate filter replacement shall be installed on the return line to the reservoir.

12. TRAILER: The brush chipper shall be capable of being towed on highways at 65 mph

- a) Frame: The trailer frame shall be of structural steel channel, tubing or equivalent, electrically welded to form a frame of adequate strength to support the maximum imposed load.

The frame structure and running gear shall be of sufficient strength to support the unit under extreme operating conditions, and while being towed at legal highway speeds. The trailer tongue shall be manufactured in accordance with one of the design configurations shown below in figures 1 through 3.

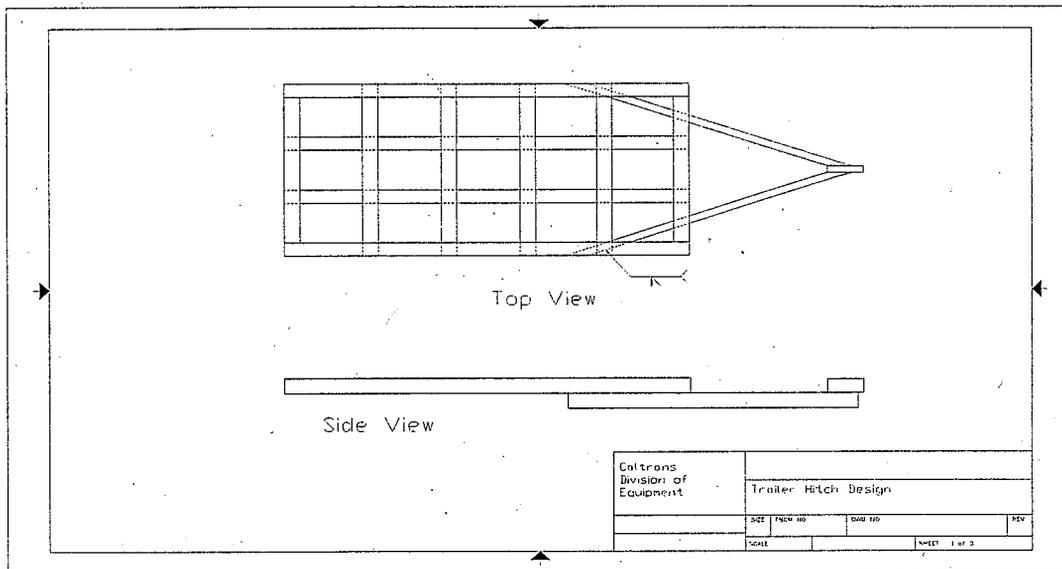


Figure 1: Acceptable Trailer Tongue Design. Configuration 1

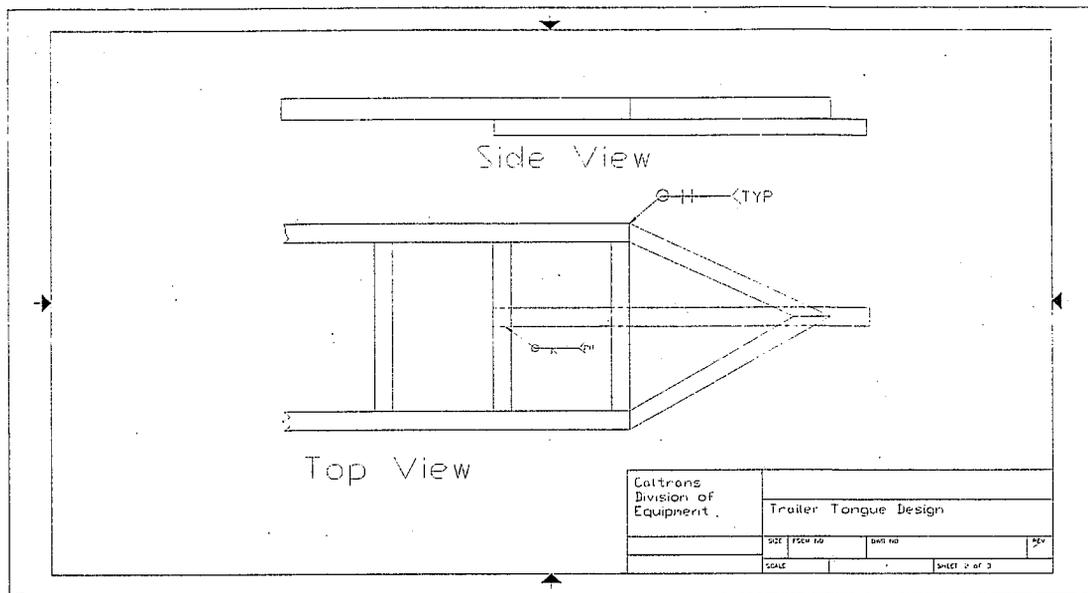


Figure 2: Acceptable Trailer Tongue Design. Configuration 2

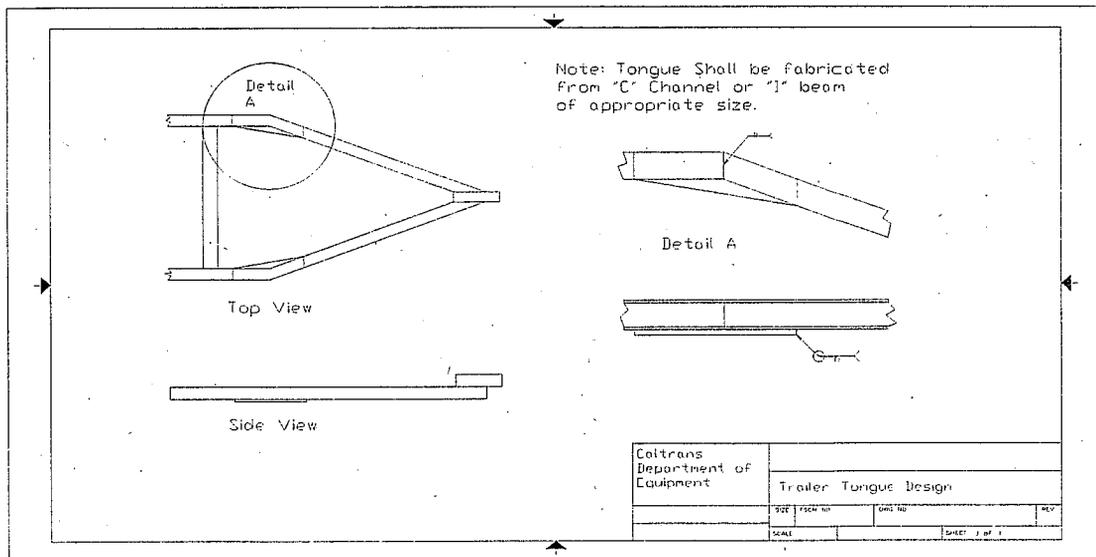


Figure 3: Acceptable Trailer Tongue Design. Configuration 3

- b) Axle: The trailer shall have a torsion axle of a minimum 7,000 pounds GAWR rated capacity and shall exceed the weight of the unit in a fully loaded condition by at least 5%.
- c) Brakes: The brush chipper trailer shall be equipped with hydraulic surge brakes

on each wheel. Ref. Dico Model 10 [10,000 GVWR] or comparable. Brakes shall be suitable for the GVWR of the trailer.

This braking system shall be equipped with a breakaway emergency brake and a separate parking brake. A hand-operated parking brake shall be provided and located forward of the axle. The parking brake shall be capable of holding the trailer on not less than a 10% grade, with the trailer loaded to its maximum GVWR.

- d) Wheels: The wheels shall be a minimum of 16-inch, drop center steel disc type wheels for radial ply tires. The wheels shall be of the proper type (i.e., stud piloted or hub piloted) for the axle supplied, and of a size and type recommended by the tire manufacturer for the tires being furnished.

Wheels shall be from a single manufacturer and the same model.

The wheels shall be mounted on roller bearing equipped hubs. The wheel mounting, the torsion axle, and the suspension shall be of ample capacity to carry the imposed loads at the legal highway speeds.

- e) Tires: The tires shall be standard size light truck (LT) or medium duty truck, tubeless, radial type-ply, of adequate size and ply to support the maximum imposed load without exceeding the tire manufacturer's recommended load rating. ST type tires are not acceptable.

The tires shall be from a single manufacturer, the same model, and have the same tread design. The tires and wheels shall be mounted and balanced as an assembly.

Tire Clearance: Tires shall not interfere with fenders upon full compression of suspension.

- f) Fenders: Adequate bolt on tire fenders with mud shield panels toward the deck shall be installed.
- g) Tongue: The trailer shall be equipped with a suitable "A" frame tow-bar or articulating tongue and an adjustable height lunette towing eye. The towing eye shall be made of 1 $\frac{5}{8}$ -inch round steel with an inside diameter of three (3) inches. The eye shall be adjustable in height from 20 to 29 inches from level ground in increments of 2 to 2 $\frac{1}{2}$ inches. The towing eye shall be adjusted to 29 (+ $\frac{1}{2}$) inches with the tongue level when parked on level ground. The tongue shall carry a weight on the hitch between 10% to 15% of the weight of the fully loaded trailer.
- h) Jacks: Two (2) swing-away screw or drop jacks with leveling pads and one (1) swing-away screw jack with a caster shall be supplied as follows:

- I Two (2) leveling jacks with footpads located at the rear to the sides of the trailer platform; Jacks shall retract or pivot above the bottom of the trailer frame for transport.
- II One (1) swing-away caster jack located on of the tongue.

These three (3) jacks shall be capable of stabilizing the trailer in the operating position.

13. MATERIAL: Construction shall be of all new material free of rust and any defects. All components in the assembly shall be fabricated from a single piece of material. Material which is joined by welding or other means to form a single piece of stock is not acceptable. The finished product shall be free of dents and warpage. The use of any type of body filler is unacceptable. All bolts shall be Grade 5 or better and conform to SAE and ASTM standards. Bolt lengths shall be such that a minimum of two threads shall extend beyond the nut. Nuts shall be the locking type. Nuts and washers shall be compatible with the bolt(s) to which they are attached, as recommended by the fastener manufacturer and in accordance with SAE and ASTM standards. If requested, the supplier shall submit proof of fastener strengths.
14. METAL SHAPING: All breaks shall be free of cracks. Radii shall be at least twice the thickness of the material or in accordance with the requirements established by ASTM for the particular material being formed, whichever is greater. All holes shall be round, of the proper dimension, perpendicular to the material they are produced in, and finished smooth. Oblong holes or holes drilled, bored, etc. at angles are not acceptable. Holes and slots shall be drilled, punched, saw cut, plasma cut, or milled; torch cut is unacceptable. Sharp corners on all material shall be radiused to prevent personnel injury.
15. ELECTRICAL EQUIPMENT: Minimum electrical equipment shall comply with all Federal Motor Vehicle Safety Standards (FMVSS) and California Vehicle Code regulations. Notwithstanding any Federal or State minimum requirements, each unit shall be equipped with two (2) taillights, two (2) stop lights, and turn (left and right) signals. All lights shall be light emitting diode (LED) recessed type, mounted in rubber grommets. The tail, stop, and turn signal lamps may be in combination (Ref. Truck-Lite #44982R (round); #60885 (oval); with 'hard coated' lens). Grommets shall match the light used. When required, the side marker, clearance, and ICC lamps shall be 2½-inch LED units (Ref. Truck-Lite #10250R, #10250Y and #10700 grommets). Retro-reflective tape reflectors (Ref. Petersen Mfg. #B490R and #B490A), shall be used where needed to meet FMVSS requirements for Class A reflectors. Mounting holes for lights shall be the proper dimension as recommended by the manufacturer of the light. The holes shall be punched, plasma, or saw cut and finished smooth; torch cut holes are unacceptable.

All wiring installed by the supplier shall be the "Unitized" type with weather proof connectors (Ref. Truck-Lite Series 88 harness system and 'Fit 'N Forget' plug assembly, or comparable; contact Truck-Lite Technical Support at (888) 562-5012).

NOTE: no splicing, cutting, or bullet-type plugs are acceptable on wiring looms or

lights. The main power source cable shall be seven (7) wire, with six (6) wires of twelve (12) gauge and one (1) ground wire of ten (10) gauge. Adequate size gauge of wire to the lights shall be used in accordance with SAE standards for distance from power source and load demand. The wiring shall be secured to minimize sagging or abrasive movement. Scotch Lock wire-type piercing devices shall not be used.

A seven-wire SAE standard trailer light plug (Ref. Cole-Hersee No. 12311 with cable guard, or comparable) shall be installed on the trailer cable extending 24 inches beyond the trailer towing eye. The plug supplied must mate with Cole-Hersee No. 12310 or Pollak No. 11-721 socket in use on State trucks. A wiring schematic, Drawing No. U1-A010-02, for the plug and wire color code is attached. The trailer shall have a storage socket for the plug while the plug is not in use (Ref. Cole-Hersee, "Stor-a-Way" 7 way plug holder or comparable).

16. SAFETY CHAINS: Two (2) lengths of 3/8-inch Grade 80 alloy safety chain shall be furnished (Ref. Columbus-McKinnon 607037 or equivalent). The safety chain shall be attached to each side of the tongue, not less than 18 inches rear of the lunette eye or to the trailer frame if the trailer is equipped with a trailer drawbar. The safety chain shall be attached with a 3/8-inch Hammerlok coupling link (Ref. Columbus-McKinnon 664241 or equivalent) to a 5/8-inch round stock formed in a loop or half-circle and lap welded to each side of the tongue or to the trailer frame if the trailer is equipped with a trailer drawbar. Do not use a link of the safety chain as the round stock. The other end of the safety chain shall be equipped with a Latchlok 3/8-inch safety hook (Ref. Columbus McKinnon 674516 or equivalent). The safety hooks shall be attached to the safety chains with a 3/8-inch Hammerlok coupling link and extend not less than 24 inches beyond the lunette eye. The safety chains shall pass through a common 1/2-inch metal round bar "U" shaped loop, approximately 3-inches wide x 3-inches high, located rear of the lunette eye and on the lower side of the tongue or drawbar.
17. WELDING: All welding shall comply with the requirements as represented in American Welding Society (AWS), D14.3-82, and American National Standard entitled "Specification for Welding Earthmoving and Construction Equipment."

All welds shall be continuous except as noted. Intermittent or spot welds shall be spaced and proportioned to provide ample strength for the material being welded. Weld sizes not indicated shall be equal to the thickness of the least of the joined plates.

All welds shall be properly fused, displaying proper penetration and a professional finish, and must meet the qualification requirements of applicable AWS specifications. Examples of unacceptable weldments are:

- | | |
|-------------|-----------------------|
| a. Cracks | d. Excessive Splatter |
| b. Undercut | e. Blow Holes |
| c. Overlap | f. Slag Entrapment |

Any weld failing to comply with the AWS specification or failing to pass a quality assurance inspection performed by the State, will be corrected by the manufacturer, at their expense, and be corrected off State property. The State shall determine if a weld is acceptable or deficient.

Any deficient weld shall be corrected by a welder who is certified in accordance with the requirements as established by the American Welding Society (AWS). The welder shall have the proper certification documents indicating that he/she is qualified to perform the type, size, and position of the weld performed, with the welding process utilized, and on the material being welded. The supplier will be required to supply proof of current welding certifications for personnel performing any re-welding on the unit, upon request of the State whether written or verbal.

GRINDING OF WELDS must have prior approval of the Department of Transportation, Division of Equipment, Engineering Specifications. Welds which have been ground without approval shall be subject to complete re-welding upon request, at no additional cost to the State.

All assembly dimensions and tolerances on drawings apply after welding. Excessive warpage of assembled parts is not acceptable. Weld symbols on drawings shall be interpreted per American National Standard Welding Symbols. In the event of the lack of a weld symbol, the best commercial practice shall prevail. The covering of welds with body fillers or similar materials is unacceptable.

18. **PAINT:** The basic unit, the primary finish surfaces of any optional equipment, and other minor or incidental component parts shall be finish painted with lead-free (**300 PPM LEAD MAX**) standard factory color(s). The finish coat shall be free from runs, drips, sags, etc., and shall be evenly applied to provide a gloss finish. The finish or top coat shall be compatible for re-coat or touch-up with lead-free DuPont Imron 5000, polyurethane enamel; PPG Delta DUHS; or, Sherwin Williams Genesis, equivalent color. All paint and primer shall be lead free.

Conspicuity reflective tape shall be applied per Federal Motor Vehicle Safety Standard (FMVSS) No. 108, Section 5.7.

19. **LUBRICATION:** The equipment shall be certified by the manufacturer for use with re-refined lubrication products. The re-refined lubrication products used by the State will meet or exceed all SAE, API, and NLGI specifications as required by the manufacturer.

Lubrication products used in each unit shall be compatible for top-off and refill with one of the following State contracted lubrication products:

- a. SAE 15W-40 motor oil.
- b. Dexron-III or Mercon automatic transmission fluid.
- c. Tractor hydraulic fluid.
- d. SAE 50 motor oil.
- e. SAE 85W-140 gear lube.

- f. NLGI #2 multipurpose grease.
- g. DOT 3 brake fluid.

For information regarding State contracted lubrication products, contact:

California Department of Transportation
Division of Equipment
PO Box 160048
Sacramento, CA 95816-0048
ATTN: Lubrication Coordinator, Ph: 916-227-9646

22. HYDRAULIC LINES AND FITTINGS: All hydraulic lines shall be sized as recommended by the manufacturer of the component to which they attach, and shall be adequate for the use intended. All hoses and plumbing shall have a minimum number of bends and shall be free of any kinks. All bends in hoses and tubing shall be not less than the minimum radius as recommended by the hose or tubing manufacturer. Where applicable, plumbing shall be protected from external damage by truck frame and body. Any hoses routed around or through areas that may cause abrasion or cuts shall be protected as necessary. All hydraulic components and plumbing shall be mounted and supported to withstand extensive field use.

Any tubing or flexible hose used in the hydraulic system shall be approved for hydraulic use and rated for the maximum working pressure of the system. Large diameter hose shall be used for low pressure return line(s) to the reservoir. The use of black pipe, galvanized pipe, brass or plastic pipe or fittings, etc. **shall not** be allowed in the hydraulic system, including the low pressure return side. Only steel or stainless steel crimp type hose fittings and ends which are approved for hydraulic use shall be used (Aeroquip or comparable).

Hydraulic fittings on high pressure lines shall be the swivel type, steel or stainless steel, and shall be 37° JIC, NPT, SAE "O" Ring Boss, or SAE "O" Ring Flange. Fittings shall be of the proper size to match the hydraulic line to which they attach. No welding of fittings will be allowed. Compression type fittings shall not be used in the system. All threads shall be North American or Japanese Metric type threads. NOTE: Thread types shall not be mixed on the unit (i.e. thread types shall be all American or all Metric).

STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
DIVISION OF EQUIPMENT

ITEM	UNIT	CAB	TRANS	ENG	CAP	C.A.	F.A.	R.A.
25204	U			100	12-inch			7000

ADMINISTRATIVE REQUIREMENTS

PURCHASE ESTIMATE NUMBER: 32-12-5428

1. **VEHICLE DOCUMENTATION REQUIRED:** The original dealer's "Report of Sale" shall be furnished by all California licensed dealers at the time of delivery of each unit or units covered by these specifications.

A California certification of compliance for vehicle pollution must be supplied at the time of delivery of each unit.

An original weight certificate from a California certified Weigh Master must be supplied at the time of delivery of each unit.

A Federal Excise Tax Exempt Certificate will be attached to the purchase order.

All documentation supplied for registration shall contain the following:

State of California
Department of Transportation/Equipment
34th Street and Stockton Boulevard
P. O. Box 160048
Sacramento, CA 95816

All required documentation shall be sent to the above address by the time of delivery.

NOTE: The State shall register/license all vehicles with the Department of Motor Vehicles.

MANUFACTURER'S I.D. PLATE REQUIRED: A plate identifying the manufacturer, tare weight, gross vehicle weight, date of manufacture and all other information as specified in the National Traffic and Motor Vehicle Safety Act, Section 114, and Federal Code of Regulations, Title 49, shall be attached to the front of the trailer frame or body.

2. **BOOKS AND MANUALS:** One (1) set of standard operator's manual, complete lubrication instructions, parts books and shop repair manuals.

(complete with electrical and hydraulic schematics) shall be supplied with each unit.

3. WARRANTY: The unit and any optional accessory shall be free from defects in workmanship and materials and be covered (parts and labor) under warranty for one (1) year following the date the Department of Transportation (Caltrans) puts the unit into service. Caltrans will notify the supplier by mail of the in-service date.

A copy of the manufacturer's standard warranty for the unit, any accessory, optional equipment, and components shall be supplied with each unit at delivery, or upon request. The manufacturer will be held responsible for warranty (commencing from the date Caltrans puts the unit into service) for the following circumstances:

1. The manufacturer's standard warranty exceeds one (1) year. Under this circumstance, the supplier is responsible until one (1) year is reached. The manufacturer will be held responsible for the balance of the manufacturer's standard warranty.
2. The supplier is no longer an authorized dealer of the equipment supplied. Under this circumstance, the manufacturer will be held responsible for the balance of the manufacturer's standard warranty. The manufacturer shall establish a fully operational warranty service provider with capabilities equal to or exceeding the supplier's (or his designated warranty provider) within 45 days of the supplier's authorized dealer termination.

If the supplier is not the manufacturer or manufacturer's authorized representative, then a statement agreeing to the warranty conditions stated herein shall be signed by the manufacturer and submitted upon request prior to Purchase Order award.

An In-Shop Warranty agreement (see attached), signed by the supplier or manufacturer, shall be supplied prior to Purchase Order award.

Caltrans, at its option, may perform warranty work under the terms of the In-Shop Warranty agreement. If Caltrans opts not to perform the warranty work, the supplier shall pick up the unit within 48-hours of notification, written or verbal. The unit will be at a Caltrans facility. The unit shall be repaired and returned within 10 working days to the Caltrans facility where the unit was originally picked up. Upon prior approval with Caltrans and in compliance with all Caltrans Policies and Procedures, warranty work may be performed at a Caltrans facility.

Any supplier or manufacturer non-compliant with the warranty provisions

set forth herein may be subject by the Procurement Division, Department of General Services, State of California to be removed from any future bidding.

For questions regarding the warranty or In-Shop Warranty agreement contact:

California Department of Transportation
Division of Equipment
P.O. Box 160048
Sacramento, CA 95816
Attn.: Warranty Coordinator (916) 227-9646

4. TRAINING: When training is requested on the Invitation For Bid, the supplier, at his expense, shall provide a qualified factory authorized service representative (not a salesman) to provide training for operators, mechanics, and parts personnel. This training (not a sales presentation) shall consist of hands-on operation, safety, service and adjustments for the operators; mechanical repair and adjustment specifications for the shop and field mechanics; parts manual orientation, nomenclature and ordering procedures for parts personnel. It shall also cover lubrication and servicing using Division of Equipment lubrication products. This lubrication product information will be provided to the supplier by the Division of Equipment Lubrication and Research Branch at (916) 227-9646.

A training plan outline, containing at least all of the subjects listed above, shall be submitted for approval within 30 days after receipt of the order (ARO) to the Division of Equipment Training Coordinator at (916) 227-9665.

The training shall be provided at the Caltrans Equipment Shop(s) specified in the Invitation For Bid. This training shall be for one (1) 8-hour day (or longer as the supplier or State deems necessary), and the date(s) of the training will be arranged by the Division of Equipment Training Coordinator (916) 227-9665. The full cost of this service shall be included in the bid. All training shall be accomplished within 45 days of acceptance and receipt of the unit at the shop indicated on the Invitation For Bid unless otherwise mutually agreed to between the supplier and the Division of Equipment Training Coordinator.

5. SERVICE REPRESENTATIVE: The supplier, at his expense, shall provide a qualified factory authorized service representative to be in attendance at the purchase order delivery site to make any necessary adjustments to the units and to give instructions to the equipment receiving inspectors to assure correct operation of the units supplied. The

supplier shall supply the service representative for one (1) 8-hour day at the delivery destination. The cost for this service shall be included in the bid.

6. WORKMANSHIP: The equipment and any accessories shall be a product of good workmanship and shall be free from any defects that will affect their appearance or serviceability.
7. IN-PROCESS REVIEW: The unit(s) may require an in-process review to verify timely progress of construction of the unit(s) and to ascertain compliance with the intent of the specifications and drawings. If there are any questions regarding the intent of the specifications or drawings, call the "Agency Contact" as indicated on the Purchase Order title page. Any in-process review will be at State expense conducted within the State of California only and will not constitute acceptance of the unit(s).
8. INSPECTION: This order will require a two (2) phase inspection process. For all inspections the unit(s) will be serviced, washed and ready for, as applicable, inspection or delivery. Inspections will begin within ten (10) working days from the date of the inspection request by the supplier. It is the supplier's responsibility to contact the Equipment Parts Coordinator at (916) 227-9636 for inspections.

FIRST PHASE (PRE-DELIVERY INSPECTION): In accordance with the State Administrative Manual, Section 4113 and the Caltrans inspection program, each unit will be inspected prior to shipment to the destination on the purchase order. This inspection trip(s) shall be State financed at no cost to the supplier.

Arrangements for pre-delivery inspections shall be made only when multiple units (5 or more) are complete. Each unit shall be identified with the applicable Purchase Order and Line Item. The vendor shall receive a copy of the inspection report within 4 working days of the inspection indicating that the first unit is either acceptable or not acceptable. Unacceptable or non-compliant items will be listed on the report. If late delivery charges accrue, the vendor will not be held responsible for those days from the request of the inspection to the receipt of the inspection report. If corrections are needed as a result of the inspection, the corrections shall be made prior to shipment to the purchase order destination. Authorization to deliver unit(s) must be granted by the Department of Transportation, Division of Equipment, Quality Assurance Section.

If additional interim inspections are required, such inspection trips shall be at the expense of the supplier at \$75.00 per hour (including travel time) and all expenses (meals, lodging, and cost of transportation). Travel

expenses will be documented on State of California, Department of Transportation, Travel Expense Claim Form, FA302. These fees may be deducted from the invoice.

PRE-DELIVERY INSPECTION LOCATION: The inspections shall be conducted by the Department of Transportation, Division of Equipment, Quality Assurance. These inspections shall take place at an adequate site provided by the vendor within the State of California. The inspection site shall meet all of the following criteria:

- a. The site shall not be the Purchase Order delivery destination. The site shall be paved, secure and zoned for commercial use.
- b. The site shall include electricity, lights, water, compressed air and a secure paved lot. The facilities shall also include lift equipment adequate to raise the units and support them on safety stands with a minimum of 12 inches of tire clearance. The supplier shall provide conditions which meet the safety standards of CAL-OSHA and Title 8 of the California Code of Regulations.
- c. The adequacy of the site shall be determined by the Department of Transportation, Division of Equipment, Quality Assurance Section. Contact the Quality Assurance Chief at (916) 227-9709 for approval.
- d. If the facility is deemed unacceptable by the Department of Transportation, Division of Equipment, Quality Assurance Section, the vendor shall be billed for the inspection trip including wages and expenses. This cost shall be deducted from the purchase order payment.

SECOND PHASE (FINAL INSPECTION): Each unit will have a final inspection at its delivery destination shown on the Purchase Order to verify acceptability. The State will have five (5) working days after delivery of a unit to conduct the final inspection of said unit. Units delivered to the final Purchase Order destination will be accepted only when all Purchase Order requirements have been met, any shipping damages have been corrected, and all required documents are received by the Department of Transportation, Division of Equipment, Equipment Receiving. These documents include, as applicable, the invoice, vehicle registration documents, parts book, operator's manuals, service manuals, lubrication instructions and charts, warranty information, certifications, questionnaires, etc. Units which are not accepted by the delivery date on the Purchase Order will be considered delivered late.

If the supplier receives notice that the unit(s) is not acceptable, whether

written or oral, the unit(s) shipped to the Purchase Order destination shall be removed within seven (7) calendar days. If the supplier fails to remove said unit(s) from the State's facilities within the specified period, the State may forward said unit(s) to the supplier by common carrier at the supplier's expense and risk.

9. DELIVERY: Inspection, delivery, and final acceptance of all units on the Purchase Order shall be within 210 calendar days after the Purchase Order date. Contact the State of California, Department of Transportation, Division of Equipment, Equipment Parts Coordinator at (916) 227-9636 for delivery.

Failure of any units to comply with the specifications by the final delivery date may place the supplier in default and may be grounds for the State to invoke Paragraph 26 of the General Provisions, Rights and Remedies of the State for Default. The Department of General Services, Procurement Division will be notified at such time.

Acceptance of delivery or placement in operation of any equipment shall not release the manufacturer from liability for faulty design, workmanship, or materials appearing even after final payment has been made.

10. LATE DELIVERY CHARGES: The parties to this agreement acknowledge that the State shall incur actual damages should the supplier fail to perform the work as called out in the contract and specification on the dates set forth herein. The parties, therefore, have agreed to late delivery charges in the amount of \$10.00 per unit per work day.

Workdays are Monday through Friday inclusive, except State holidays observed Monday through Friday inclusive.

The parties also agree that the amount specified is not unreasonable nor punitive in nature because both parties have carefully considered the amount specified and believe it to be a reasonable estimate, and not excessive at the time the purchase order is entered into.

It is, therefore agreed, that the supplier will pay the State of California the sum of \$10.00 per unit per work day (as stated above) for each work day the work remains uncompleted or unaccepted by the State, provided the total late delivery charges assessed against supplier shall in no event exceed twenty-five percent (25%) of the total value of the entire order, and the supplier agrees to pay said damages as herein provided. In the event such damages are not paid, the supplier agrees that the State may deduct the amount thereof from any monies due or that may become due said supplier.

11. PAYMENT: Process for payment will be initiated on each unit as units are received and deemed acceptable. The discount period will start after acceptance of each unit on the Purchase Order.
12. QUESTIONNAIRE: The attached questionnaire shall be filled out and will become a part of each bid submitted. Any portion of the questionnaire which is not applicable to the equipment shall be shown as N/A (not applicable). All questions shall be specifically answered, "per specification" is not an acceptable response.

Unless otherwise stated in the purchase order, the requirements of the written purchase order specification shall have precedence over the completed questionnaire; and the completed questionnaire shall have precedence over standard factory specifications or literature.

13. GENERAL: One (1) complete set of additional filters (air, oil, water, fuel, hydraulic, etc.) shall be supplied with the first unit delivered. This additional set of filters shall be as recommended by the manufacturer and shall be complete with the appropriate part numbers for identification.

Each unit and any accessory shall be delivered completely assembled and ready to operate.

No exceptions to the specifications will be allowed unless the exceptions are listed on the purchase order or subsequent addenda.

The component parts of the unit shall be new and of proper size and design to safely withstand the maximum stresses imposed.

The manufacturer's torque rating of each driven part shall be equal to or exceed the torque rating of its driving member.

Complete printed specifications, published literature, and photos or illustrations (as available) of unit or units that the bidder proposes to furnish shall be supplied upon request.

All equipment and accessories cataloged as standard, unless superseded by these specifications, are to be furnished and included in purchase price of this unit.

The supplier or the manufacturer of the equipment being supplied shall guarantee that all replacement parts for the equipment shall be available for delivery to the State within five (5) working days after the request is telephoned to the manufacturer, or supplier. This requirement shall be in effect for a period of five (5) years after the date the equipment is put into

service by the State of California. Suppliers may be removed from the bid list for failure to meet the parts availability obligation.

Bids will not be considered if supplier's designated f.o.b. delivery destination is other than the delivery address stated in the invitation to bid.

Only new models, produced and/or assembled by existing manufacturers of like or similar equipment, will be considered. Special options may be included only when recommended by the manufacturer of the unit and approved by the State.

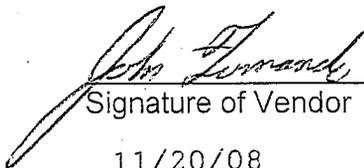
All equipment/options are to be factory installed. If the equipment/options are not available factory installed, dealer installed equipment/options may be acceptable. The bidder is to specify those items that will be dealer installed.

"Caravan" or "drive-away" deliveries from points outside the State of California will not be accepted.

The State reserves the right to amend the contract within the scope of the original bid to cover: unanticipated work or the addition of options priced in the awarded Purchase Order. The bid may be amended for additional labor at the published flat rate where applicable.

The State reserves the right to purchase one (1) additional unit, or up to an additional 25% of the quantity on the Purchase Order, at bid prices, for State Agencies and California Local Government Agencies. Orders for such additional units shall be placed within 180 days of bid award date.

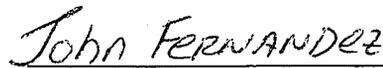
I have received, read and agree to the Administrative Requirements for Solicitation 57156, of 8 pages.



Signature of Vendor

11/20/08

Date



Printed Name

BRUSH CHIPPER QUESTIONNAIRE

- 1 MANUFACTURER: Morbark MODEL: Storm 12
- 2 CHIPPER DIAMETER CAPACITY: 12 inch
- 3 ENGINE:
Manufacturer Perkins Model 1104C.ET
Engine Family: 8PKXL04.4NJ1
Continuous rated Horsepower 114
Torque 376 lb-ft @ 1400 RPM
Gauges per specifications supplied: x Yes No
- 4 FEED CHUTES:
Distance measured from level ground up to the in feed table and to the center line of the rollers: 88 inch
Distance from feed table edge to feed rollers: 66 inch
Feed rate of rollers 0 - 120 fpm
- 5 DISCHARGE CHUTES:
Total swivel on discharge chute 360 °
Height from ground of discharge chute exit point 90 - 108 inch
Radius of discharge chute: 33 - 34 inch
Does the unit have a chip trap clean out YES
- 6 INFEED SYSTEM:
Number of feed rollers: 2
Diameter and Length of feed rollers: 9.5" x 17" inch
Are feed rollers equipped with non-wrapping feed bars: x Yes No
In-feed chute opening Height and Width: 18" x 12" @ Feed Roller inch
Outer Opening 31" x 50" (W) (H)

In-feed rollers power driven: Yes No

In-feed rollers equipped with forward and reverse capability: Yes No

7 DUST SUPPRESSOR:

Are there two sprayers located on the infeed chute facing the rollers? Yes No

Is there at least one sprayer located in the discharge chute? Yes No

Rate of Spray/Sprayer: 1.8 Gallons Per Hour (GPH)

Water tank capacity 30

On-Off Switch on pump Yes No

Is filter installed between the tank and the pump? Yes No

8 SAFETY:

Emergency kill switch location On each side of the feed table
within easy reach of the operator.

Does the unit comply with the Division of Industrial Safety General Safety Orders,
Section 3424 (c)? Yes No

9 KNIVES:

Number of Knives: 4

Knife Dimensions: Length X Width X Thickness: 7.25" x 5" x .50"

10 DISC:

Kinetic energy force produced by Disc in lb./ft 800,000

Disc Diameter 37 inch Disc Thickness 2 inch

Disc Mass: 750 lbs.

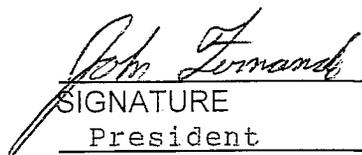
Number of cuts across diameter per revolution 2

11 ELECTRICAL:

Alternator capacity: 70 Amps

Battery (CCA) 1000

Garvey Equipment Company
COMPANY
430 S. Pine Street
ADDRESS
San Gabriel, CA 91776


SIGNATURE
President
TITLE
800/282-4396
TELEPHONE NUMBER

LIST ANY ADDITIONAL INFORMATION OR EXCEPTIONS TO THE SPECIFICATION BELOW.

CALTRANS IN-SHOP WARRANTY AGREEMENT

Name of Supplier/Manufacturer Garvey Equipment Company/Supplier
Warranty Representative (print or type) John Fernandez
Street Address 430 S. Pine Street
City, State, Zip Code San Gabriel, CA 91776
Telephone Number 800/282-4396
Solicitation No. 57156 Due Date 11/21/08
Item (Quantity/Brand/Model) 21 Morbark Storm 12

When equipment is purchased for Caltrans, a section of the specifications requires the supplier/manufacturer to enter into an In-Shop Warranty Agreement.

The terms of the In-Shop Warranty Agreement for this equipment are as follows:

1. Labor rate charged by Caltrans will be \$100.00 per hour.
2. Warranty claims will be processed on a Caltrans Work Order unless the supplier/manufacturer furnishes standard warranty forms.
3. Suppliers'/manufacturers' standard flat rate time schedules shall be used as a guide for In-Shop Warranty repair time. If a supplier's/manufacturer's flat rate time schedule is not available, Caltrans will use the time that is recorded on the Caltrans Work Order.
4. Replacement parts will be available within 5 working days from the date of receipt by supplier/manufacturer of a Purchase Order, whether the order is made by telephone or in writing.
5. Replaced parts will be held 60 days for inspection by the supplier/manufacturer.
6. Original Equipment Manufacturers' parts will be used as replacement parts; or, if OEM parts are not available, after-market parts of equal or better quality will be utilized.
7. Copies of invoices for all parts will be provided to the supplier/manufacturer.

Caltrans will contact the supplier/manufacturer for authorization to perform In-Shop Warranty repairs as stated in this agreement. Only under extreme emergency conditions will In-Shop Warranty be performed without prior authorization. If Caltrans opts not to perform the warranty work, the supplier shall pick up the unit within 48 hours of notification, written or verbal.

In-Shop Warranty Agreement shall remain in effect until all conditions of warranty in the State of California specifications and in the original manufacturer's warranty expire.

Signature, Caltrans Warranty Coordinator _____
Signature, Supplier/Manufacturer John Fernandez /Supplier 11/20/08
Date _____

GROUND
 WHITE - 10 GA

CONTINUOUS ABS POWER
 ACTIVATED IN KEY ON POSITION
 BLUE - 12 GA

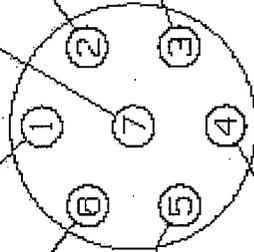
TAIL, MARKER, CLEARANCE, I.C.C.
 BROWN - 12 GA

ELECTRIC BRAKE
 BLACK - 12 GA

RIGHT TURN & STOP
 GREEN - 12 GA

LEFT TURN & STOP
 YELLOW - 12 GA

STOP AND ABS DEVICES
 RED - 12 GA



PE 32-12-5428

NOTE:

1. USE 7 WIRE RUBBER COVERED CABLE
 1-10 GA & 6-12 GA
2. COMBINATION STOP, TAIL, & TURN LIGHTS.
3. COLE-HERSEE # 12311 PLUG.
4. ALL WELDS, ELECTRICAL AND PAINT
 WILL BE IN COMPLIANCE WITH
 CALTRANS EQUIPMENT QUALITY STANDARDS.
 GO TO www.dot.ca.gov/hq/eqbc TO
 VIEW EQUIPMENT QUALITY STANDARDS.

CT SK # 034-1204

E	MAY 04	ADDED ABS NOTES TO PINS 4 AND 7	J Payne
D	3-02	REMOVED 11-763 FROM NOTE 3	DOWNIN
C	8-88	PIN 7 WAS ELECTRIC BRAKE PIN 2 WAS BACK UP LIGHT	G.T.H.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

OFFICE OF EQUIPMENT

WIRING SCHEMATIC FOR TRAILER PLUG

SCALE	NONE	DATE	3/12/84	U1 - A010-02
DRAWN	GTH	DESIGNED	STAFF	
CHECKED		APPROVED		SHEET 3 OF 2 SHEETS